Problem Statement:

1. Which is the best country to find new talent?
2. How important is the result in qualifying for the race? (In general and for each track).
3. How does the result in the sprint race affect the result in the race?
4. What is the correlation between the average lap time and fastest lap of a winner and the result of the race?

Queries:

1)

-Total victories per nationality

SELECT DISTINCT d.nationality, SUM(r.position) AS 'Total victories'

FROM drivers d

JOIN results r ON d.driverId = r.driverId

WHERE r.position = 1

GROUP BY d.nationality

ORDER BY SUM(r.position) DESC

total rows = 23

-Races with points per nationality

SELECT DISTINCT d.nationality, COUNT(r.position) AS 'Races with points'

FROM drivers d

JOIN results r ON d.driverId = r.driverId

WHERE r.position <= 10

GROUP BY d.nationality

ORDER BY COUNT(r.position) DESC

A screenshot of a computer

Description automatically generated total rows = 38

-Drivers nationality percentage

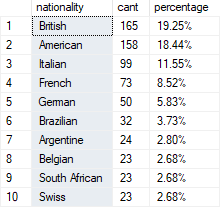
SELECT nationality, cant, CONCAT(CAST((cant \* 1.0 / total\_cant) \* 100 AS DECIMAL(10,2)), '%') AS percentage

FROM (SELECT d.nationality, COUNT(\*) AS cant, (SELECT COUNT(\*) FROM drivers) AS total\_cant

FROM drivers d

GROUP BY d.nationality) AS subquery

ORDER BY cant DESC;

 total rows = 42

-Fastests Laps per Nationality (Ranking first in the race)

SELECT DISTINCT d.nationality, SUM(r.rank) AS 'Total Fastest Laps'

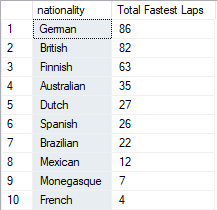
FROM drivers d

JOIN results r ON d.driverId = r.driverId

WHERE r.rank = 1

GROUP BY d.nationality

ORDER BY SUM(r.rank) DESC

total rows = 17

2)

Findings and Answers:

1. Which is the best country to find new talent?

Based on the nationality data of each driver, we conclude that the best country to find new talent for Formula 1 is United Kingdom, due to several reasons:

* + - * 1. The majority of drivers in the history of Formula 1 were/are British, with 19.25%, so is more likely to find a potential driver in this country than in any other.
        2. British drivers win more races overall (309), followed by Germans (179), and Brazilians (101).
        3. When it comes to points, they achieved 2029 races finishing with points (almost the double that the French, which they rank second).
        4. Even though they rank second in “Fastest Laps Per Nationality”, the difference with the first (Germany) is only four races. Even in this scenario british drivers keep excelling.